D3AZL2002	(1 Page)	Name
		Reg. No

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2021 (Regular/Improvement/Supplementary)

ZOOLOGY FZOL3C08 - IMMUNOLOGY & CYTOGENETICS

Time: Three Hours Maximum Weightage: 30

Part A: All questions can be answered. Each carries two weightage (Ceiling 6 weightage).

- 1. State the factors influencing immunogenicity.
- 2. Comment on RIA.
- 3. What is antibody-dependent cellular cytotoxicity?
- 4. Give a short account on transplantation antigens.
- 5. Mention the role of caspaces in apoptosis.
- 6. What are cadherins?
- 7. Comment on various genes involved in apoptosis.

Part B: All questions can be answered. Each carries four weightage (Ceiling 12 weightage).

- 8. Discuss the mechanisms of antigen processing and presentation.
- 9. Explain the events of T cell activation and differentiation.
- 10. What are primary immunodeficiency diseases? Discuss in detail.
- 11. Differentiate primary, secondary and tertiary organs of immune system and add a note on their immunological significance.
- 12. Give a detailed account on different hypersensitivity reactions.
- 13. Explain the mechanism and application of agglutination reaction.
- 14. Describe the composition of extracellular matrix.

Part C: All questions can be answered. Each carries six weightage (Ceiling 12 weightage).

- 15. Discuss the complement activation and regulation in detail. Add a note on the functions of complement system.
- 16. Write an essay on the structure, classes and functions of antibody molecule.
- 17. What are autoimmune diseases? Elaborate their immunological basis and treatment.
- 18. Explain cell signalling through G protein coupled receptors.